



## INTRODUCTION

Metal Additive Manufacturing is migrating from research labs and premium complex non mass production items towards becoming an alternative technique for regular manufacturing. Its scalability, economics and feasibility is transforming very rapidly and a whole ecosystem for Simulation & Design for Additive Manufacturing on one hand and diverse application opportunities using different materials with configurable properties on-demand on the other hand.

In order to present latest update on this Technology of near future now, Indian Machine Tool Manufacturers' Association (IMTMA) is organising an online training on "Metal 3D Printing - Technology of near Future".

## FOCUS AREAS

- Overview of Metal Additive Manufacturing : Laser Cladding, Direct Material Laser Deposition, Selective Layer Melting
- Advantages, Limitations and key drivers for Metal AM
- New skill set required for AM and its ecosystem
- Simulation of metal AM
- Design for Manufacturability with AM ( DFAM)
- Range of Materials admissible
- Opportunities for diverse Applications

## KEY TAKE AWAYS

- Overview of Process, Technology and Equipment
- Applications of AM in sectors like : Aerospace, Automotive, Die & Mould, Medical Implants
- Process Optimization
- Design optimization for maximizing benefits of AM
- Case Studies

## FEE PER PARTICIPANT (PER LOGIN)

**Rs. 4000/-**

+18% GST

**IMTMA Members/ Micro Companies/ Individuals/  
Educational Institutions / Students/ IMTMA Non  
Members/ Others**

**USD 120/-**

**Overseas Participants**

## FACULTY

**Dr.- Ing. Ralph Bernhardt**, Senior Director for Technical Sales Support Global (since 2016) at Simufact Germany Formerly, Director R&D @ Simufact engineering GmbH in Hamburg and Head of AMAP- Cluster office @ RWTH Aachen Technical Managing Director @ EFS GmbH in Bitburg; pipe-end forming technologies; Implementation of simulation tools Innovation Manager @ cdp Bharat Forge GmbH (former Peddinghaus Group); worldwide training for simulation users Technical Managing Director @ Umformtechnik Radebeul GmbH; Aluminum Forgings

**Mr. Avinash Khare**, is presently working as a Consultant Head for IMTMA Pune Technology Centre for last 5 years ; he has been designing, developing content and delivering wide range of Training Courses as a Faculty. He is Electrical Engineer by Qualification and he has worked for over 33 years at Tata Motors Pune in various capacities ranging from R&D in Industrial Electronics, Machine Maintenance, Technology Procurement, Head of Machine Shops, Tool Room Shop Head, Head of Die Design and Champion in Business Excellence. He has taught Instrumentation and Bio Medical Instrumentation at Pune University as part time faculty.

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